



# Tohono O'odham Community College



## Associate of Applied Science in Computer Information Systems

The Associate of Applied Science in Computer Information Systems is a workforce degree intended for those students seeking entry-level employment upon completion. Students who are considering continuing their education after their Associates Degree should consider the Associate of Arts in Computer Information Systems.

### Sample Path Progression

If you are a part time student, take half of the classes each semester (fall 1 and spring 1). The following year, take the second half of the classes (fall 1 again and spring 1 again) until you complete the suggested sequence.

Summer 1 (6 cr hr)	
✓ STU 101 Becoming a Master Student (Recommended if student has been out of school for several years) ✓ CIS 100	
Fall 1 (16 cr hr)	Spring 1 (13 cr hr)
✓ WRT 101 ✓ HIS 122 ✓ MAT 142H ✓ CIS 130 ✓ GEO 267	✓ WRT 102 or SPE 110 ✓ CIS 127 ✓ CIS 140 ✓ BIO 105N
Summer 2 (0 cr hr)	
Fall 2 (15 cr hr)	Spring 2 (14 cr hr)
✓ CIS 210 ✓ CIS 240N ✓ CIS 250N ✓ THO 101 or 106	✓ CIS 234N ✓ CIS 240N ✓ CIS 280 ✓ CIS 297



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## Associate of Applied Science in Computer Information Systems

NAME:	TOCC ID:
TOCC EMAIL:	PHONE NUMBER:
TERM OF ADMISSION:	EXPECTED GRADUATION YEAR/TERM:
ACADEMIC ADVISOR:	FACULTY ADVISOR:

### General Education Courses:

- Tohono O'odham Himdag (7 cr): HIS 122 (3 cr) and select one from the following: THO 101, THO 106 (4 cr)
- MAT 142H or higher (with the exception of MAT 146 and MAT 147)
- WRT 102 or SPE 110, Public Speaking

Note: MAT 142H and courses ending in N (e.g., BIO 100N) are 4 cr. hrs unless otherwise indicated. The rest of the courses are 3 cr. hrs unless otherwise indicated.

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
HIS 122	Tohono O'odham History and Culture						
THO							
WRT 101	Writing I						
WRT/SPE							
MAT							
BIO 105N	Environmental Biology						
<b>Total General Education Credits Needed: 21</b>				<b>Total Earned Credits:</b>			

### Core Requirements (CIS 100 and MAT 142H are prerequisites for the core courses):

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
CIS 100	Introduction to Computers						
CIS 127	Programming and Problem Solving I						
CIS 130	Fundamentals of Computer Networking						
CIS 140	Introduction to Risk Management						
CIS 210	Introduction to System Administration						
CIS 280	IT Project Management						
CIS 297	Internship/Practicum						
<b>Total Core Credits Needed: 21</b>				<b>Total Earned Credits:</b>			

### Electives:

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
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CIS 234N	CIS 234N Cybersecurity and Network Defense						
CIS 240N	Network Security						
CIS 250N	Coding Fundamentals						
GEO 267	Introduction to GIS						
CIS XXX							
<b>Total Core Credits Needed: 18</b>				<b>Total Earned Credits:</b>			
<b>Total Program Credits Needed: 60</b>				<b>Total Earned Credits:</b>			

### Program Learning Outcomes:

1. Technical Skills: Develop advanced proficiency in programming languages, database management, and network administration.
  - a) Measurable Objective: Students will demonstrate proficiency in at least one programming languages and complete projects showcasing their ability to use databases, adjust network configurations, and apply cybersecurity processes.
2. Problem-Solving: Enhance critical thinking abilities to troubleshoot and solve complex IT problems.
  - a) Measurable Objective: Students will successfully troubleshoot and resolve at least three simulated IT problems during lab exercises or projects, including more advanced issues.
3. Communication: Improve communication skills for effective customer service, technical documentation, and presentations.
  - a) Measurable Objective: Students will deliver a technical presentation or write a report demonstrating clear communication of advanced IT concepts and solutions.
4. Ethical Awareness: Understand and apply ethical principles in IT practices.
  - a) Measurable Objective: Students will analyze complex ethical dilemmas in IT scenarios and propose solutions aligned with professional standards and Tohono O'odham Himdag.
5. Collaboration: Work effectively in teams on advanced IT projects.
  - a) Measurable Objective: Students will lead and participate in group projects, demonstrating effective leadership and teamwork in achieving project goals.

### Students:

You must secure official approval by your advisor(s) before submitting the **final** Program of Study. By signing or entering your name below, you agree to the following statement: "Students are responsible for complete knowledge of Academic Catalog requirements in their degree plan and for adhering to all policies in Academic Catalog and Student Handbook."

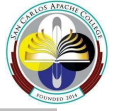
### Signature Panel:

Please indicate approval of the curriculum on the Program of Study by placing your signature (formal electronic signatures are permitted) in the space provided.

Student:	Date:
Academic Advisor:	Date:



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Faculty Advisor:	Date:
Registrar:	Date:
Dean of Academics:	Date: